PATENT ABSTRACTS OF JAPAN

(54) STREAMING BROADCAST SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a streaming broadcast system in which a state for receiving a video is brought about by simply starting a personal computerconnection can be made automatically with a plurality of video delivery sources by simply selecting a channel without requiring any special operationand a plurality of streaming broadcasts can be received through a simple arrangement.

SOLUTION: A video delivery server arranged to deliver streaming data by a plurality of channels is prepared at a program source; a video receiving software is set up automatically when a user's receiving terminal is started so that a

program tablechannelscomments on the programa using methodadvertisementsand the likecan be displayed on the screen of the receiving terminal; and connection can be made automatically with the communication backbonee.g. the Internetor a video delivery server by selecting a channel thus receiving a streaming broadcast without requiring any intricate operation.

CLAIMS

[Claim(s)]
[Claim 1]Program dispatch origin sent out on a communication base which comprised net networkssuch as the Internetintranetand a wide-area-information communications network (WAN)by using data of an image from two or more video-delivery-through-the-Internet originor a sound as data for streaming broadcasts.
A function which connects with said program dispatch origin via said communication baseand receives and displays streaming data.
Are the above the streaming broadcast system which it hadand said program dispatch originA video storage means which compresses data of an image from two or more said video-delivery-through-the-Internet originor a soundand is accumulated as data for streaming broadcasts for every video-delivery-through-the-Internet originA variety-of-information accumulation means which accumulates a variety of information of an advertisementcharacter informationetc.It consists of a distribution means which data for streaming broadcasts stored in said video storage means is made to correspond to a channel for every video-delivery-through-the-Internet originand is sent out on a communication base with various data of said variety-of-information accumulation meansSaid receiving terminal on a screen on a receiving terminal A viewing area of streaming broadcastA selection indication means of a channel corresponding for said every video-delivery-through-the-Internet origina

characteran advertising viewing areaetc. are generatedIt has the software displayed on said viewing area in response to streaming data corresponding to a channel which it connected with a distribution means via said communication base with directions of a channel by a selection indication means of a channeland was directedConnection with a distribution means and reception of streaming data which passed a communication base with directions of a channel in said receiving terminal were enabled.

[Claim 2]A streaming broadcast system indicated to claim 1wherein software which said receiving terminal has rises simultaneously with starting of a receiving terminal.

[Claim 3]A streaming broadcast system indicated to claim 1wherein software which said receiving terminal has has a function which displays a data content of each channel on a viewing area of streaming broadcast.

[Claim 4]Data which faces a distribution means of said program distribution origin sending out charged streaming dataand displays a charged purport on a viewing area of streaming broadcast of said terminal for reception is sent outA streaming broadcast system indicated to claim 1 having a function which carries out accounting in response to a signal of fee payment consent by a user.

[Claim 5]Said accounting memorizes a selected result of a method for specifying selection of a user's means of settlement performed a prioriand a user to a distribution means of said program distribution originA streaming broadcast system indicated to claim 4 carrying out with means of settlement which a post utilization person who compared a selected result of a method for specifying a signal and a user of fee payment consent by a userand checked that he was a regular user chose.

[Claim 6]A streaming broadcast system indicated to claim 1wherein said program dispatch origin lends or sells a channel which a distribution means has to video-delivery-through-the-Internet originsuch as program manufacture origin and

image distribution origin.

DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[Field of the Invention]This invention relates to the streaming broadcast system which transmits and receives an image with net networkssuch as the Internetintranetand a wide-area-information communications network (WAN).
It is related with the streaming broadcast system which enabled it to reproduce the image especially in a receiver very simply.

[0002]

[Description of the Prior Art]Transmission of the animation and voice file using net networkssuch as the Internetintranetand a wide-area-information communications network (WAN)is replaced with download reproduction of a conventional type with progress of the compression technology of the sound and video data in these daysand streaming technology has come to be used. Namelyin download reproduction of a conventional typeafter downloading a sound and image data thoroughly to a client sideit is necessary to begin reproduction. In the case of the sound and animation contents covering a long timethe file size became large and there was a problem that waiting time required for download was too longand practical use was not borne. Since [which continues reproduction while reproduction starts only by performing data buffer ring processing for about several seconds first by streaming reproduction to it and data is received continuously henceforth] things can be carried outThe sound and animation contents covering a long time can also be received/reproduced by within a time [which can be equal to practical use].
[0003]

[Problem(s) to be Solved by the Invention]Howeverthis conventional streaming technologyFor those who do not have full knowledge of a personal computerthe operation for reception itself is troublesomeand DifficultyIn order to combine with an image and to disseminate an advertisement and informationa viewing area must be separately prepared for portions other than receiving softwaretherefore software other than receiving software is neededandin distributing the same information as all peoplevarious problemssuch as the impossibleexist.

[0004]Namelyviewing and listening of the image by the conventional streaming technologyAccess in inputting URL (Uniform Resource Locator) of the homepage which started the personal computer firstaccessed the Internet and has distributed the image to seeand the software for reception is startedIt becomes possible to begin by itand to view and listen to an image. Thereforeit was far from the feeling which views and listens to the usual televisionand these operations were sensed very troublesomeand such operations had become an obstacle of viewing and listening for the beginners and elderly people who have not got used to operation of a personal computer. Although looking for description using online help generally is performedthe question which is on the operation in the image reception with such personal computersand was producedsince what looking for an item required of this online help itself should just acquire information required for origin for what kind of keyword from is not knownit is very serious workand for elderly people or a beginnersuch points had also become an obstacle of image viewing and listening especially.

[0005]And when the image to which it viewed and listened and which carried out in this way differs from the thing of hopethe homepage which has newly distributed the image of hope is searchedAlthough input of URL (Uniform Resource Locator) of the homepage and soft starting for reception are carried out again and it receivesIn this caseit will be operation of the time for tens of seconds being required by the time that image actually comes to be seenafter receiving picture image dataand looking for the image which wants to turn and see the channel of the usual televisionwith what was completely widely different.

[0006]Although it combines with an image when distributing such imagesan advertisement and information are disseminated and obtaining an advertising rate income etc. in addition to the fare receipts to the usual image viewing and listening is generally performedFor the purposeit becomes impossible to have to prepare a viewing area for portions other than receiving software separatelyand for software other than receiving software to be needed for that purposeand to distribute the same information as all people.

[0007]It will be in the state in which image reception is possible only by this invention starting a personal computer in view of an above-mentioned situationIt is a technical problem to provide the streaming broadcast system which enables it to connect with two or more video-delivery-through-the-Internet origin automatically only by selection of a channelwithout carrying out special operationand can receive two or more streaming broadcasts with easy composition.

[0008]

[Means for Solving the Problem]Thereforein this inventiona video-delivery-through-the-Internet server which enabled it to distribute a channel corresponding to two or more video-delivery-through-the-Internet origin is prepared for program dispatch originImage receiving software is automatically started at the same time it starts a personal computer which constitutes a receiving terminal from a receiving terminal sideAnd a comment of as opposed to a race carda channeland a program to a personal computer screenEnable it to display directions for usean advertisementetc.and automatically by selection of a channel The Internet and intranetAnyone enabled it to receive streaming broadcast simplywithout having enabled it to connect with a video-delivery-through-the-Internet server via a communication base which comprised net networkssuch as a wide-area-information communications network (WAN)and performing complicated operation.

[0009]As this invention was indicated to claim 1use data of an image from two or more video-delivery-through-the-Internet originor a sound as data for streaming

broadcastsand Thereforethe Internet and intranetProgram dispatch origin sent out on a communication base which comprised net networkssuch as a wide-area-information communications network (WAN)It is a streaming broadcast system which consists of a receiving terminal which has a function which connects with said program dispatch origin via said communication baseand receives and displays streaming dataA video storage means which said program dispatch origin compresses data of an image from two or more said video-delivery-through-the-Internet originor a soundand is accumulated as data for streaming broadcasts for every video-delivery-through-the-Internet originA variety-of-information accumulation means which accumulates a variety of information of an advertisementcharacter informationetc.It consists of a distribution means which data for streaming broadcasts stored in said video storage means is made to correspond to a channel for every video-delivery-through-the-Internet originand is sent out on a communication base with various data of said variety-of-information accumulation meansSaid receiving terminal generates a selection indication means of a channela charactersan advertising viewing areaetc. corresponding to a screen on a receiving terminal for said every viewing-area [of streaming broadcast]and video-delivery-through-the-Internet originIt has the software displayed on said viewing area in response to streaming data corresponding to a channel which it connected with a distribution means via said communication base with directions of a channel by a selection indication means of a channeland was directedConnection with a distribution means and reception of streaming data which passed a communication base with directions of a channel in said receiving terminal were enabled.

[0010]Thussince program dispatch origin has a channel corresponding to two or more video-delivery-through-the-Internet origin in a video-delivery-through-the-Internet server by constituting a streaming broadcast systemThe user can enjoy contents of two or more video-delivery-through-the-Internet origin only by connecting a terminal for reception to a video-delivery-through-the-Internet server of this program dispatch origin. A comment of as opposed to [in a terminal for

reception] a race carda channeland a program to a personal computer screenEnable it to display directions for usean advertisementetc.and automatically by selection of a channel The Internet and intranetAnyone can receive streaming broadcast easily including beginners or elderly peoplewithout performing complicated operationsince it has the software which enabled it to connect with a video-delivery-through-the-Internet server via a communication base which comprised net networkssuch as a wide-area-information communications network (WAN).

[0011]And as software which this terminal for reception has was indicated to claim 2software which said receiving terminal has rises simultaneously with starting of a receiving terminal.

[0012]Streaming broadcast can be enjoyed without an addressee of streaming broadcast being completely conscious of a terminal for reception being a personal computer by doing in this way.

[0013]As software which a terminal for reception has was indicated to claim 3software which said receiving terminal has has a function which displays a data content of each channel on a viewing area of streaming broadcast.

[0014]Thusby displaying a data content of each channel on a terminal for receptionthe user can look for a program which he wants to watch easily.

[0015]As indicated to claim 4furthermorea distribution means of program distribution origin a distribution means of said program dispatch originData which faces sending out charged streaming data and displays a charged purport on a viewing area of streaming broadcast of said terminal for reception is sent outand it has a function which carries out accounting in response to a signal of fee payment consent by a user.

[0016]Thusprogram distribution origin can perform rate collection from a user easily by giving a function of accounting to charged streaming data to a distribution means of program distribution origin.

[0017]A user's specification and accounting in this accountingAs indicated to claim 5said accountingSelected resultssuch as a method for specifying selection

of means of settlement by a user who carried out a prioriand a userare memorized to a distribution means of said program dispatch originAfter checking that he is a regular user by a selected result of a method for specifying a user in response to a signal of fee payment consent by a userit carries out with means of settlement which a user chose.

[0018]By doing in this wayprogram dispatch origin can certainly specify a userand the user can choose convenient means of settlement for himselfand can use a system of this invention.

[0019]And as program dispatch origin was indicated to claim 6said program dispatch origin lends or sells a channel which a distribution means has to video-delivery-through-the-Internet originsuch as program manufacture origin and image distribution origin. [0020]By doing in this wayprogram dispatch origin can obtain an income from program manufacture originimage distribution originetc.

[0021]

[Embodiment of the Invention]Hereafterbased on a drawingan embodiment of the invention is described in detail in illustration. Howeverthe size of the component parts indicated to this embodimentconstruction materialshapeits relative configurationetc. are not the meaning that limits the scope of this invention only to it but only mere examples of explanationas long as there is no specific statement in particular.

[0022]The block diagram which drawing 1 requires for one embodiment of the streaming broadcast system which becomes this inventionThe explanatory view of the channel ********** case of plurality [program / in the streaming broadcast system by which drawing 2 becomes this invention / single]The explanatory view of the channel assignment in the streaming broadcast system by which drawing 3 becomes this inventionThe block diagram of the streaming broadcast system by which drawing 4 becomes this inventionan example of the screen for reception of the personal computer in the streaming broadcast system by which drawing 5 becomes this inventionThe flow chart of an addressee's image reception in the streaming broadcast system by which drawing 6 becomes this inventionThe

pushed channel in the streaming broadcast system which becomes this invention drawing 7 Judgment of being the rightAnd in the key map of the channel rental in the streaming broadcast system by which the flow chart of judgment of being the right at the time of carrying out other operations and drawing 8 become this inventionand saleand the streaming broadcast system by which drawing 9 becomes this inventionThe flow chart in the case of charging and drawing 10 are a program donor's image registration flow charts.

[0023]The video-delivery-through-the-Internet origin to which 10 distributes imagessuch as a movie and a live image from various pictures and a performance hallin drawing 1An image compression device with which 11 carries out the data compression of the image sent from video-delivery-through-the-Internet former 10 to streaming broadcastsThe image storage servers which accumulate the image into which 12 was compressed with the image compression device 11The text managing server with which 13 memorizes explanation and description of the various images accumulated in 12 at image storage serversThe variety-of-information managing server with which 14 accumulates varieties of informationsuch as CMa weather reportand area informationA distributing server for 15 to send out the data from these image storage servers 12the text managing server 13the variety-of-information managing server 14etc. as streaming broadcast dataData storage equipment with which 1617and 18 memorize information in each server19 is a communication base which comprises net networkssuch as the Internetintranetand a wide-area-information communications network (WAN)These image compression device 11the image storage servers 12the text managing server 13the variety-of-information managing server 14the distributing server 15and the data storage equipment 1617and 18 constitute program dispatch origin.

[0024]20 in drawing 2 The transmitting origin of the live image in the concert hall etc.21 $_1$Two or more video cameras in which 21 $_2$ and 21 $_3$ were installed in the transmitting origin of the imageThe receiving terminal in which 22 $_1$22 $_2$22 $_3$....22 $_n$

comprised a personal computer etc. of the user who receives streaming broadcastThe video-delivery-through-the-Internet origin which showed drawing 1 $10_1 10_2 10_3 .... 10_n$ in drawing 3With 15 [same]similarly a distributing server and 19 are communication basesand are $30_1 30_2$ and 30_3---- 30_{999} shows the channel assigned to the contents from each video-delivery-through-the-Internet former 10. 15 are the samea video-delivery-through-the-Internet server and 19 are the samethe video-delivery-through-the-Internet origin which showed drawing 1 10 in drawing 4 is a communication baseand 41 is a means to digitize the image from video-delivery-through-the-Internet originand to encipherand is equivalent to the image compression device 11 in drawing 1. As for the advertisement distribution origin to which 42 distributes the advertisement of a picturea character advertisementetc.an advertisement distribution server and 45 are addressees a means for 43 to digitize the image from advertisement distribution originand to encipherand 44. The screen of the personal computer which is an example of the terminal for reception in the streaming broadcast system by which 50 becomes this invention in drawing 5The image display area and 52 51 Manual operation buttonssuch as playbacka halta stoprecordingand a scaling buttonThe viewing area of the various text of a comment of as opposed to a program in 53directions for usean advertisementetc.A race card display button for 54 to display channel selection and the viewing area of a channel numberand the genre of various kinds [55]and display the race card corresponding to the genre on the image display area 51the multipurpose information viewing area as which 56 displays CM etc.and 57 are volume control buttons. As for the program dispatch origin as a TV-with-Internet-functions officea program manufacture company72 and 73and .... of the broadcast addressee who showed drawing 4 45 in drawing 8and 70 are image distribution origin 71.

[0025]Drawing 1 is a block diagram concerning one embodiment of the streaming broadcast system which becomes this inventionand graphical data compression of the image from video-delivery-through-the-Internet [two or more] former 10 is carried out with the image compression device 11it is used as the data for

streaming broadcastsand is memorized to the data storage equipment 16 of the image storage servers 12. On the other handexplanationa titleetc. of various images which were accumulated in the image storage servers 12 are memorized by the data storage part 17 of the text managing server 13and varieties of informationsuch as CMa weather reportand area informationare accumulated in the data storage part 18 of the variety-of-information managing server 14. And the image from two or more video-delivery-through-the-Internet [which was memorized by the data storage equipment 16 of the image storage servers 12] former 10The explanation and the title of various images which were memorized by the data storage part 17 of the text managing server 13Varieties of information memorized by the data storage part 18 of the variety-of-information managing server 14such as CMa weather reportand area informationare sent out to the communication base 19 which comprised net networkssuch as the Internetintranetand a wide-area-information communications network (WAN)with the distributing server 15.

[0026]And as shownfor example in drawing 2video-delivery-through-the-Internet former 10 shown in this drawing 1Two or more video camera 21_1 installed in the concert hall 20Channel CH1CH2and CH3 are assigned to each of 21_2 and 21_3Those images are compressed with the image compression device 11 shown in drawing 1and it sends out to the communication base 19 from the direct distributing server 15and can make it possible to receive as a live image by a user's receiving terminal $22_1 22_2 .... 22_n$. In this caseeach video camera $21_1 21_2 21_3$It is also possible to constitute so that a video camera can be turned in a user's receiving terminal $22_1 22_2 ....$the direction which each user wants to send a signal to the concert hall 20 from $22_n$and to see at **********.

[0027]In the streaming broadcast system which becomes this invention as shown in drawing 3 on the other handEach of two or more video-delivery-through-the-Internet former $10_1 10_2$----and 10_nFor exampleit assigns the channel CH999 grade of news channel CH1 of channel 30_1economic relation channel CH2 of $30_2 .... 30_{999}$and may be made to send out to the communication base 19 from the

distributing server 15.

[0028]And these channel CH0CH1CH2and ....A profit can be acquiredas were shown in drawing 8and two or more each program manufacture company 71 and image distribution origin 72 and 73 rents or sells each channel frame to .... and each program manufacture company 71 and the contents which two or more image distribution origin 72 and 73 manufactured are distributed.

[0029]And video sourcessuch as videotape from such video-delivery-through-the-Internet former 10As shown in drawing 4it is digitized and enciphered with the image compression device 41 (11) shown in drawing 1and are sent out to the video-delivery-through-the-Internet server 15and. The picture and character advertisement from advertisement distribution former 42 are digitized with the block 43 like an imageand are sent out to the video-delivery-through-the-Internet server 15 through the advertisement distribution server 44. Thereforethe video-delivery-through-the-Internet server 15 is sent out to the addressee 45 through the communication base 19as these images were described above.

[0030]Namelysince the image from two or more video-delivery-through-the-Internet former 10 or advertisement distribution former 42 is put in block by the video-delivery-through-the-Internet server 15 and managed in this inventionthe addressee 45By connecting with this video-delivery-through-the-Internet server 15 of program dispatch origin through the communication base 19 which comprised net networkssuch as the Internetintranetand a wide-area-information communications network (WAN). Reception of two or more channels can be enjoyed only by single connectionwithout searching for various homepages.

[0031]Nextthe screen 50 for reception in the personal computer of the image addressee who showed drawing 5 in the streaming broadcast system which becomes this invention is explained. This screen 50 for reception has an image of the image display area 51the viewing area 53 of textthe race card display button 55and multipurpose information viewing-area 56 gradeand a viewing area of a characterIt has the manual operation buttons 52such as channel selection and the viewing area 54 of a channel numberplaybacka halta stoprecordingand a

scaling buttonand volume control button 57 grade for controlsuch as
selectionplayback of an imageand a stop.

[0032]And the software for reception for generating such a screen 50 for
receptionin order that the addressee of an image may realize this systemI will
download and install via said communication base carried outor will vomit -- CD-
ROM etc. in which the said software for reception was written come to handand it
is installed in the personal computer for receptionetc. For this software for
receptionbesides the generation function of Screen 50 for reception to receive an
imageIt has a function etc. which are automatically connected to the
communication base 19 for transmitting and receiving presenting of the additional
information of a character or a picturecontrol of other software built in the
receiving setextension of a receiving function and restrictionchange of the
appearance of screen 50 self for receptionthe function that notifies the number
peculiar to a device main frame to receiveand data.

[0033]And the software which generates Screen 50 for reception shown in this
drawing 5 installed in the personal computer for addresseesWhen the addressee
of an image starts a personal computerit starts by starting automatically or
clicking on the icon of this software separatelyand Screen 50 for reception is
generated. And the race card corresponding to that genre can be displayed on
the image display area 51 by clicking the request genre in the race card display
button 55 on which a program guide is displayed on the image display area 51 at
the time of this startingand the race card for every genres of various kinds of is
displayed. Thereforethe addressee of an image can choose a desired channel by
choosing channel selection and the number shown in the viewing area 54 of the
channel number.

[0034]And whenas for the addressee of an imagethe contents of the program
used to wish themselveses at this timeBy clicking the reproduction button in the
manual operation buttons 52such as playbacka halta stoprecordingand a scaling
buttonSoftware connects this addressee's receiving terminal to net networkssuch
as the Internetintranetand a wide-area-information communications network

(WAN)automaticallythe program of a channel corresponding from the video-delivery-through-the-Internet server 15 via the communication base 19 is acquiredand data is sent out to the personal computer for addressees. Thereforethe addressee can receive a program required without troublesomeness in any way.

[0035]On the other hand to the viewing area 53 of the text shown in this drawing 5and the multipurpose information viewing area 56. By being able to display a commentdirections for usean advertisementetc. to a programand including the program of the plug-in software (brand name JAVA) for image displaythe flash plate (FLASH)etc. in the software of a receiving screen. The advertisement by image effectssuch as a punner advertisement and animeis possibleand it has made.

[0036]It explains using the flow chart hereafter shown in drawing 6 about the receiving operation of the streaming broadcast system of this invention constituted in this way. If receiving terminalssuch as a personal computerare first started in Step S10Screen 50 for reception of an image addressee's receiving terminal described above in Step S11 will start. It may be made to start starting of Screen 50 for reception of this receiving terminal by clicking on the icon of this software separatelyas described above. At Step S12see the race card displayed on the image display area 51and And channel selectionAnd when there is no program to watch to the race card which pushed the number of the viewing area 54 of a channel numberand chose the channelor was displayed on the image display area 51A genre including the program which wants to see the race card display button 55 is chosenthe program of the genre is displayed on the image display area 51and the channel of hope is chosen out of it.

[0037]Thena program judges automatically whether the channel pushed at Step S13 is the rightwhen wrongthe purport that he followed to Step S14 and operation is wrong to the text viewing area 53and the right method of presentation are displayedand processing is returned to Step S12. On the other handwhen the selected channel is rightUsing the function which notifies the

number peculiar to a device main frame which processing follows to Step S15 and a program receivesautomatically The Internet and intranetIt connects with the communication base 19 which comprised net networkssuch as a wide-area-information communications network (WAN)and connects with the video-delivery-through-the-Internet server 15 at Step S16 further.

[0038]Thereforesince the information on picture image dataan advertisementetc. which were enciphered towards the addressee from the video-delivery-through-the-Internet server 15 at Step S17 is distributedin responsethe addressee 45 can enjoy the contents of hope. That istwo or more contents can be enjoyedwithout doing entirely troublesome worksuch as connection with the required Internetsearch of a homepageand starting of the software for receptionwhen the addressee of an image enjoys the conventional streaming in this invention.

[0039]And as shown in Step S18 while doing in this way and having received the imagewhen other operations are carried out like liking to want to see the image of other channels or to expand a screenWhen it is judged like the case of said step S13 whether operation is the right and it is wrong at Step S19the purport that operation is wrongand the right method of presentation are expressed to the text viewing area 53 as Step S20and processing is returned to Step S19. On the other handwhen other performed operations are rightprocessing progresses to Step S21Processing of reception of the image of a channel for which it wishedor expansion of a screen is performedand reception of an image is continuedit progresses to the following step S22 furtherand it is judged whether the earth switch of playbacka halta stoprecordingand the scaling buttons 52 was pushed.

[0040]And when the earth switch of this playbacka halta stoprecordingand the scaling buttons 52 is not pushedprocessing returns to Step S19 and the same thing is repeatedWhen pushedprocessing progressing to Step S23 and stopping image reception to the video-delivery-through-the-Internet server 15 is toldand video delivery through the Internet is completed automatically. And connection with the communication base 19 which comprised Step S24 automatically further with net networkssuch as the Internetintranetand a wide-area-information

communications network (WAN)is also cutand the Internet TV program is completed at Step S25.

[0041]Other operations [in / in the channel which Step S13 in the flow chart shown in this drawing 6 pushed / judgment of being the right and Step S19] make a judgment of being the right in the flow chart shown in drawing 7. Namelyafter the screen 50 for reception in the receiving terminal for image addressees starts at Step S11 in drawing 6see the race card displayed on the image display area 51 in Step S12and input a channel numberbut. The flow chart of drawing 7 showed this step S12 and Step S13and Step S14 in detail.

[0042]Firstif the screen 50 for reception in the receiving terminal for image addressees starts at Step S11 in drawing 6processing will go to Step S50 in drawing 7and will change reception of the channel number in a receiving terminal into a possible state at Step S51. And if a single digit number is first inputted at Step S52it is judged whether the input of 4 or more figures was performed at Step S53and since the single figure has been just inputted nowthe number which processing followed to Step S55 and was inputted will be notified to the distributing server 15. And compatibility is checked at Step S56 and it is confirmed whether the channel under input exists at Step S57.

[0043]And when a channel does not existprocessing progresses to Step S60As Step S14 of drawing 6 explainedthe purport that operation is wrongand the right method of presentation are displayed on the text viewing area 53the channel number inputted at Step S61 is initializedprocessing returns to Step S51and it is urged to inputting a channel number again. On the other handwhen the channel under input existsprocessing progresses to Step S58Processing is advanced to Step S15 shown in drawing 6 via Step S62 noting that the input of a channel is completedwhen there is no next inputeven if it is judged how [that has an input of the following number in fixed time] it isand it carries out fixed time lapse.

[0044]When it is during the input of a channel number at this step S58since the number input of the following beam is performed at the following step S59 before fixed time lapseprocessing returns to Step S53 and the processing explained

above is repeated. And if the number input of 4 or more figures is checked at Step S53shortlyprocessing goes to Step S54deletes the single figure of the beginningis made into figures triple [a total of]and the same processing as the following is continued. Operation as which the above chooses Step S12 in drawing 6 the step S19 in drawing 6 in 14 although it is detailed thru/or other channels in 21 is completely performed similarly.

[0045]Thusalthough reception of an image is performedfee collection for collecting a subscription fee from an addressee on the occasion of this reception can be performed. The flow chart of drawing 9 showed the processing in this caseand the accounting in this invention is hereafter explained based on this drawing 9.

[0046]The administrator of the streaming broadcast which distributes the contents charged firstEven if that is announced beforehand from the video-delivery-through-the-Internet server 15 and it pays the remuneration to contentswhen the addressee who wishes to receive was looked foror it sees some contents of an accounting object or the addressee who got to know the existence has wishedthe user registration to these addressees is performed. Selection of whether this user registration checks on the occasion of a user's namethe check of an addressand reception of the contents of an accounting objectIn order to perform selection from the general means of settlement etc. which can be used on the method of the settlement of accounts to fee collectionfor exampleuse of a credit cardbank pulling downelectronic bankingand other networksetc. and to identify a user to itIn order to attest that they are IDa passwordor the person himself/herselfprovision etc. of the hardware which identifies an addressee's bodily featuresfor examplea fingerprint and a voiceprinta mug shotetc. are performed. The necessary information about the fee collection of such user registrationssettlement of accountsetc. is beforehand set as the software which generates the above mentioned screen 50 for reception.

[0047]And when a user desires reception of accounting object contentsacquisition of user's information is first performed at Step S31 of drawing

9. It is what compares the information from the hardware which identifies ID which shows that this is the user's information and the person himself/herself who registered beforehanda password or bodily featuresfor examplea fingerprint and a voiceprinta mug shotetc.and checks that he is the person himself/herselfThis check of that him is the person himself/herself will acquire the channel information which the user inputted at Step S12 of said drawing 6 at Step S32. By Step S15 of said drawing 6and Step S16namelythe connection with the communication base 19Since connection with the video-delivery-through-the-Internet server 15 is madethe channel transmitted at this time is acquiredit is judged by it at Step S33 whether the image of this channel is a chargewhen it is free informationprocessing carries out to Step S38 and an image is sent to a user.

[0048]On the other handwhen the image provided by the acquired channel information is an accounting objectprocessing goes to Step S34 by Step S33and expresses that it is pay information and the amount of money to the image display area 51 of a user's personal computer as it first. This settlement amount is set up by the information provider side. And it is judged whether this user accepts all the accounting object images unconditionally at the following step S35In the case of the user who judges whether it uses each timeit is judged whether processing may go to Step S40 and whether it having inputtedwhen the user's used these contentsand fee collection may be performed. And when not usingprocessing carries out to Step S42error handling is madeand it endsand when accepting fee collectionprocessing goes to Step S36. On the other handalso when it is judged that this user accepts all the accounting object images unconditionally at Step S35processing goes to Step S36and the settlement processing to fee collection is made here.

[0049]And it is judged whether the settlement processing performed now at Step S37 is satisfactoryFor examplewhen there is a problem that the credit card for settlement of accounts had expirederror handling is made at Step S41processing is completedwhen there is no problem in settlement processingprocessing after

step S17 in said drawing 6 is performedand the display of an image is performed at Step S38.

DESCRIPTION OF DRAWINGS

[Brief Description of the Drawings]

[Drawing 1]It is a block diagram concerning one embodiment of the streaming broadcast system which becomes this invention.

[Drawing 2]It is an explanatory view of the channel ********** case of plurality [program / in the streaming broadcast system which becomes this invention / single].

[Drawing 3]It is an explanatory view of the channel assignment in the streaming broadcast system which becomes this invention.

[Drawing 4]It is a block diagram of the streaming broadcast system which becomes this invention.

[Drawing 5]It is an example of the screen for reception of the personal computer in the streaming broadcast system which becomes this invention.

[Drawing 6]It is a flow chart of an addressee's image reception in the streaming broadcast system which becomes this invention.

[Drawing 7]It is a flow chart of judgment of being the right when the pushed channel in the streaming broadcast system which becomes this invention carries out judgment of being the rightand other operations.

[Drawing 8]It is a key map of the channel rental in the streaming broadcast system which becomes this inventionand sale.

[Drawing 9]In the streaming broadcast system which becomes this inventionit is a flow chart in the case of charging.

[Drawing 10]It is a program donor's image registration flow chart in the streaming broadcast system which becomes this invention.

[Description of Notations]

50 The screen of the personal computer for reception

51 Image display area

52 Manual operation buttonssuch as playbacka halta stoprecordingand a scaling button

53 The viewing area of text

54 Channel selection and the viewing area of a channel number

55 Race card display button

56 Multipurpose information viewing area

57 Volume control button